

5 ATCCACCTTGGCCAGTTGCGCCTCTTCCAGCGTCATATCGTCACGCTCGAAATAG  
 GCGCAGGTGTAGACCCAGGTGGGATCGAGGAACAACGCGAAGAAGTCATCCGA  
 AATGTCGTAAGCCGACTGTGACTCTTCGTAATATGGTCTCAGCTTGGCCAT 3'

3. ORGANISM: *M.tuberculosis*
4. IMMEDIATE: Natural sequence
5. NAME / KEY: mmaA1
6. SEQUENCE ID # 1

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#### INFORMATION FOR SEQUENCE ID No: 2

##### 1. SEQUENCE CHARACTERISTICS:

- 15 1. LENGTH : 864 bp.
2. TYPE : DNA

5'CTACTTCGCCAGCGTGAAGTGGTTGACGTCGATGTAGCCGACCCGGAACAGCT  
 TGGCGCAGCCGGTCAGGTATTTTCATGTACCGCTCGTAGACCTCTTCGGACTGGA  
 TCGCGATGGCCTCGCTTTTGTGTTCCCTGCAGCGCCTCGGCCACAGGTCGAGGGT  
 20 CCTGGCGTAATGCGGCTGCAGCGACTGGCGGCGAGTCAGCGTGAAACCCGTCTT  
 CGCCGACTGTTCTCAACCATTTCATCGTCGGAGGTTGGCCCCCGGGAAGAT  
 TTCGGTCGCGATGAACTTGAGAAAGCGGGCCAGCCACAACGTGAGCGGCAAGC  
 CGTGGTCGACCATCTGCTGCCTGGTCAGGCCGGTGATCGTGTGCAGCAGCAACA  
 CGCCATCGGGCGGCAGGATTTTGTGGGCCCGGGCGAAGAAGTCGGCGTGACGA  
 25 TCGTGGCCGAAGTGCTCGAACGCGCCGATCGACACGATGCGGTCGACGGGCTCG  
 TTGAACTGCTCCCATCCCGCCAGCAACACTCGCCTGTCGCGCGGGGTGTCCATCT  
 CGTCGAACGACTTCTGCACATGGGCGGCCTGGTTCTTCGACAATGTCAGGCCGA  
 CGACGTTGACGTCATACTGCGCGATCGCGCGCCGCATGGTGGCGCCCCAGCCGC  
 AACCGATATCGAGCAGCGTCATGCCGGGCTGCAGACCTAGCTTGCCCAGCGCCA  
 30 GGTGATCTTGGCGATCTGGGCCTCTTCCAGCGTCATGTCCTCGCGTTTCGAAATG  
 CGCGCAGCTGTAGGTCTGGGTTCGGATCCAGGAACAGCCGGAAGAAGTCGTCGG